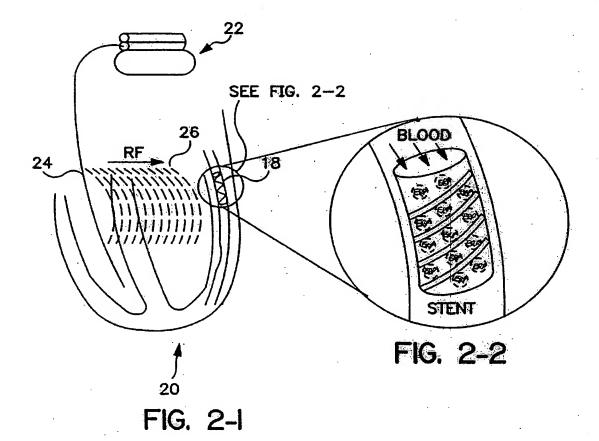
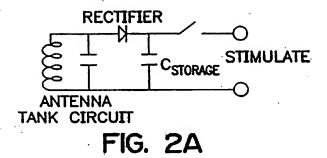


FIG. 1





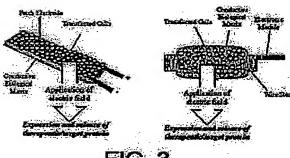


FIG. 3

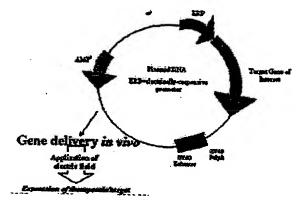


FIG. 4

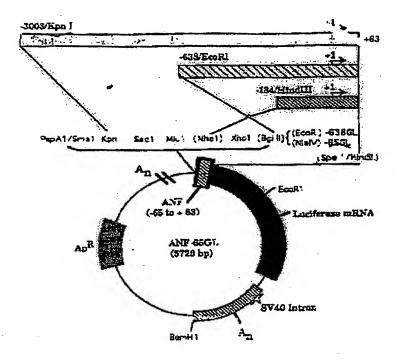


FIG. 5

4

10Hz, 20ms, 1mA, 1.3s polarity reversal 10Hz, 10ms, 4mA, 6.0s polarity reversal 10Hz, 20ms, 1mA, 6.0s polarity reversal 5Hz, 5ms, 2mA, AC coupled 10Hz, 20ms, 1mA, AC coupled



Stimulus Parameters Tested

FIG. 6

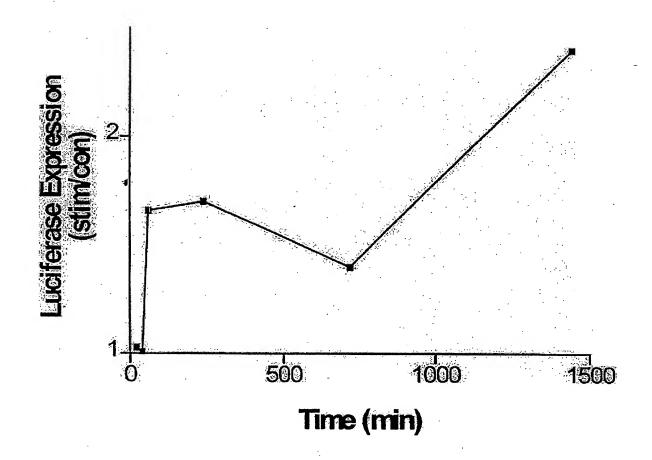


FIG. 7

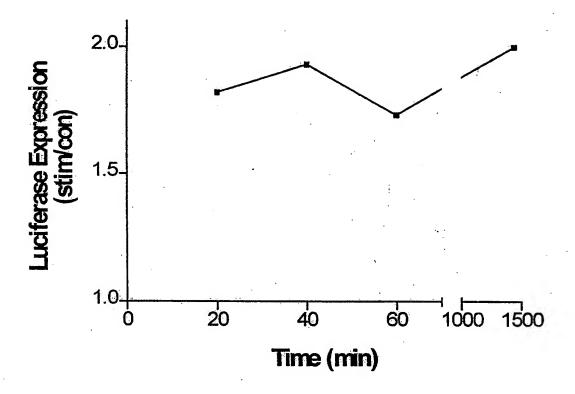


FIG. 8

Electrically Responsive Promoter Stimulation Apparatus

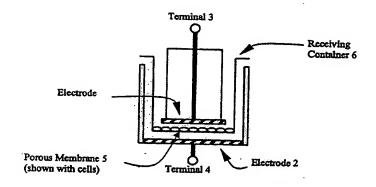


FIG. 9

Electrical Stimulation

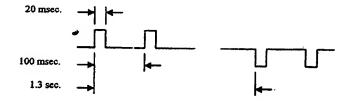


FIG. 10

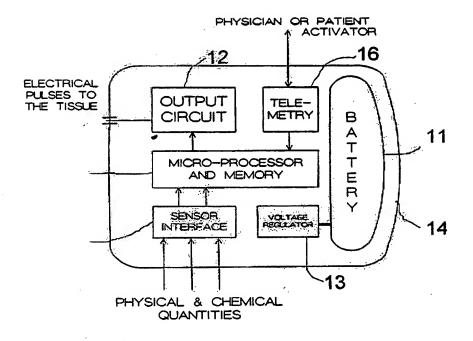
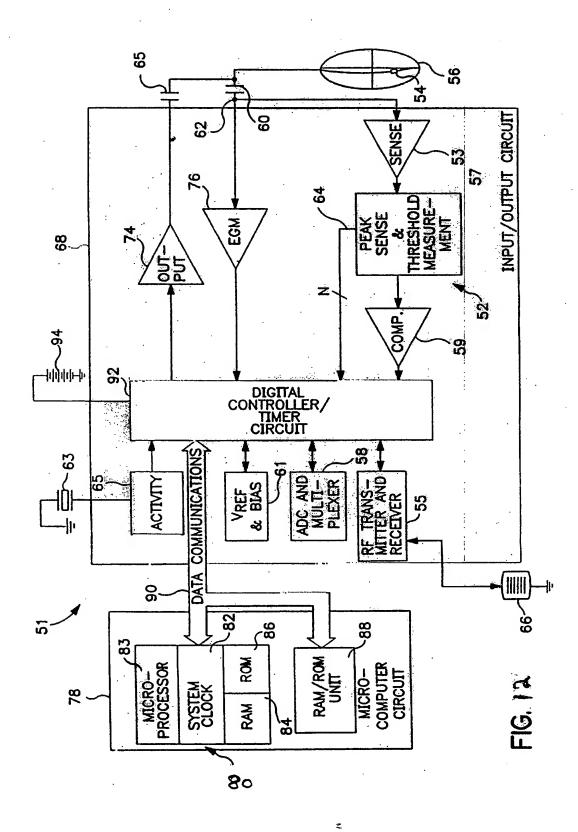


FIG. 11

9



Simplified Schematic of the Output Circuit of A Stimulator

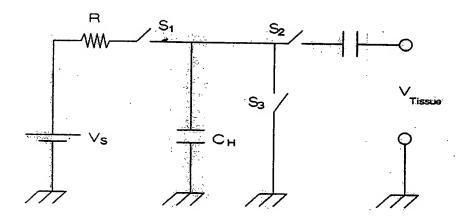


FIG. 13

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Equivalent Circuit of the Output Stage During Stimulation

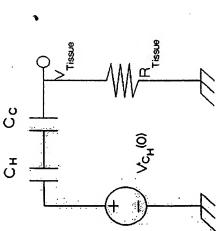


FIG. 14

Timing of the Internal Signals and the Tissue Stimulation Signal

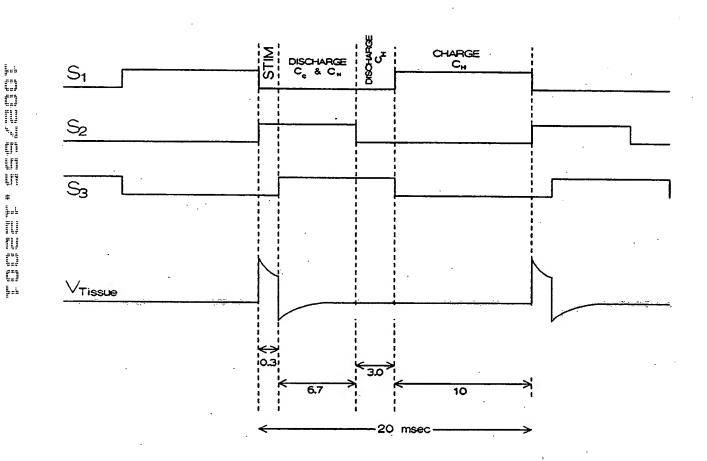


FIG. 15